

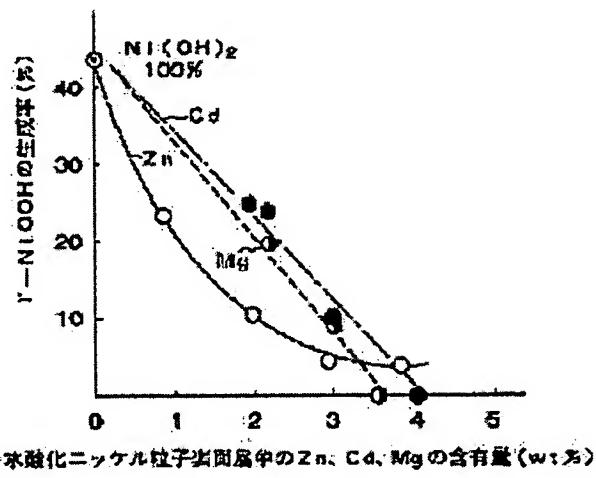
NICKEL ELECTRODE FOR ALKALINE STORAGE BATTERY

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Abstract of JP6013075

PURPOSE: To provide a high capacity nickel electrode with less electrode swelling by forming a solid solution added layer of group II element on nickel hydroxide powder surface, and using this as an active material.

CONSTITUTION: A determined quantity of cobalt sulfate or boron is dissolved in nickel sulfate at a temperature of 40-60 deg.C to form an aqueous solution. A sodium hydroxide aqueous solution is added dropwise thereto, and pH is regularly kept at 11-14 while stirring to precipitate cobalt or boron-contained nickel hydroxide having a small pore capacity. Thereafter, this is added to an aqueous solution in which zinc sulfate and cadmium sulfate are dissolved in nickel sulfate in a determined ratio. The same operation is conducted to provide nickel hydroxide powder having a solid solution added layer of zinc, cadmium or magnesium on the particle surface. The formation of gamma-NiCOOH on the electrode surface is suppressed by this coat, and a nickel electrode having no battery swelling and good charge efficiency at high temperature can be provided.



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